

# Disq

IP 65 IK 08 Class I Class II 



The design of Disq was inspired by the need for new, broadly applicable standard lanterns. Both in large scale projects, for example residential streets, where timelessness and functionality are desired, but also in specific projects such as squares, parks and shopping centres, where strong design accents can create a distinctive atmosphere. Disq offers modern simplicity in harmony with the environment.

#### Applications

Consult pages 16-19

#### Lamps

Compact fluorescent  
up to 36W (FSD)  
up to 60W (FSCH)  
Ceramic metal halide  
up to 150W



Disq 2140  
Post top 0°



Disq 2141  
Wall



Disq 2142  
Side entry



Disq 2143  
Pendant



Disq 2144  
Post top 10°

- 1 **Housing** die-cast (LM6 quality) aluminium, standard painted in Futura Gris 900 Sablé (canopy, frame, spigot, adapter Ø 60mm column).
- 2 **Bowl**
  - a Clear polycarbonate for compact fluorescent (FSD) lamps.
  - b Clear polycarbonate with interior round refractions (exterior smooth) for fluorescent circular (FSCH) lamps.
  - c Toughened flat glass with grey masking print around the optic for ceramic metal halide (MT) lamps.
  - d Clear DIRECTA lenses for LED.

Through use of flat (glass) bowls, the lantern can achieve lighting standards G6 and D6 at 00 tilt, preventing obtrusive light maximumly.
- 3 **Opening/closing** by a stainless steel closing clip with a plastic guide for smooth operation and to prevent the coating from being damaged.
- 4 **Optics** made of anodised high purity aluminium. Dedicated reflectors for different lamptypes; FSD, FSCH and MT. FSD including Thermofix® (4a) for optimum temperature behaviour. MT optic available in Performer and Comfort version. Dedicated lenses for LED.
- 5 **Gasket** housing silicon, IP 65. Controlled Breathing Technology (CBT) through the spigot prevents build up of condensation.
- 6 **Gear** for all versions, standard electronic.
- 7 **Gear tray** at the rear of the reflector plate held in place by two captive screws for compact fluorescent lamps. For ceramic metal halide lamps the gear tray is next to the optic.
- 8 **Locking strip** to prevent accidental closing of canopy and bowl.
- 9 **Cable connection** in spigot by plug and socket connector.



Gear tray.



Connection in spigot.

## CHARACTERISTICS

**Post top mounting**

Disq has a standard spigot suitable for  $\varnothing$  76mm post top. For  $\varnothing$  60mm post top a special adapter can be ordered. Fixing to the column is done by one M10 stainless steel bolt.

**Side entry mounting**

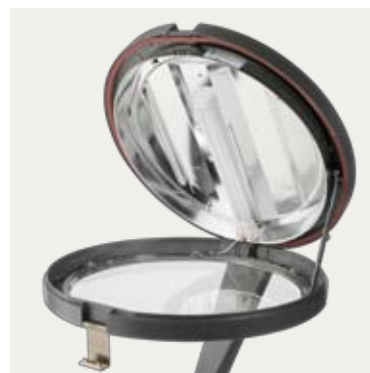
For  $\varnothing$  60mm side entry columns. Fixing to the column is done by two M10 stainless steel bolts.

**Wall mounting**

Disq with a pre-mounted wall bracket is fixed to the wall by four M10 stainless steel bolts.

**Pendant mounting**

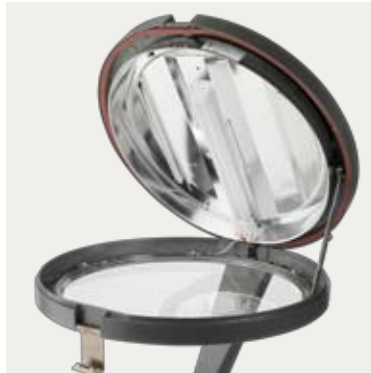
Next to the pendant element, a 90° gland is positioned on top of the lantern.

**Maintenance**

The lantern can be opened and closed by using a stainless steel closing clip that has been captively fixed to the housing and can easily be opened without the use of tools.

The canopy with optic and gear opens upwards by its hinges and is held in place in open position by a locking strip, after which the lamp can be replaced.

### Optics



#### Disq Clear

This optic (SNN) is built up with a wide beam 2D reflector optic for FSD-24 and -36W in a transparent bowl. This makes the functional optic extremely suitable for application in for example residential areas.



#### Disq Refraq

This optic (SRN) consists of a specifically developed refractor bowl that in combination with special reflector optics for FSCH-22/40/55/60 lamps delivers a wide light distribution. The refractions are internal in order to prevent accumulation of dirt.



#### Disq ExaCT Performer/Comfort optic

The ExaCT Performer (PNN) and ExaCT Comfort (CNN) optics are specifically developed for MT lamps, combined in a flat glass bowl (protective cover screen printed).

The combination of optics result in wide application possibilities, maintaining a pleasant and uniform image in the streets.



#### Disq LED "available per 2010"

A Disq LED variant is being developed based on Indal's REVOLVED technology, using COO-LED and DIRECTA lens techniques, obtaining high efficiency in an attractive form.

The twofold LED optic combines lamp (LED) and lens in one, resulting in a higher lantern output.

LED solutions will become available in all different mounting versions: post top 0° and 10°, side entry, wall and pendant mounting offering flexibility for each application. Also the three light colours 3000, 4000 and 5700 Kelvin will become available.

## CHARACTERISTICS

### Light pollution

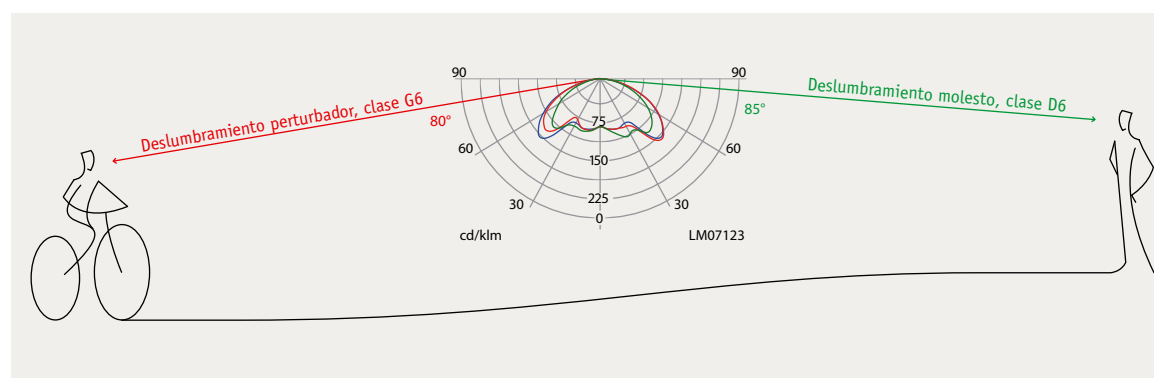
#### ECO-designed

Because of the flat bowls there is no longer any upwards emission, in other words: **no light pollution.**



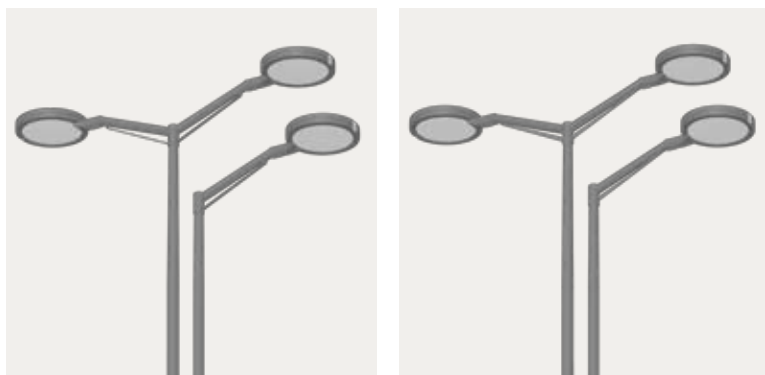
Many existing post top lanterns have an ULOR of more than 10%. Disq with its flat bowl reaches an ULOR of 0%, when installed under 0° tilt.

### Glare



By reducing the light intensity under high angles from the lantern, glare and intrusive light for the environment are avoided as well. The **highest glare classes G6 and D6** can be achieved.

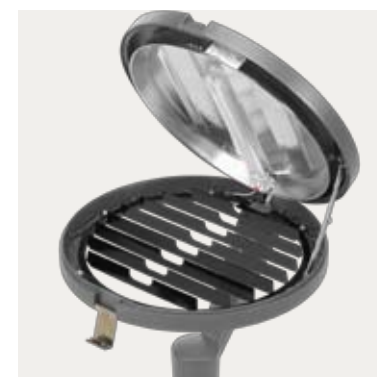
### Special bracketry Disq



For a further integration of the Disq lantern towards a more decorative arrangement, two Disq brackets were developed, Almere 1 (Single and Twin) and Almere 2 (Single and Twin).  
Almere 1: The small supporting bracket is flat (horizontal).  
Almere 2: The small supporting bracket is upright (vertical).

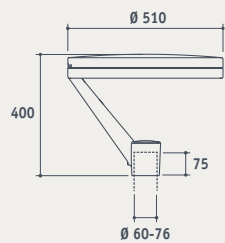
### Louvre

For extra reduction of light emission on to houses for example, a louvre frame is available that can also be retrofitted.

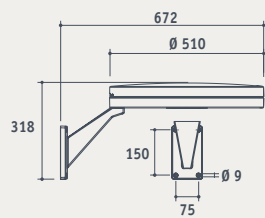


Louvre frame with maximum 8 louvres.

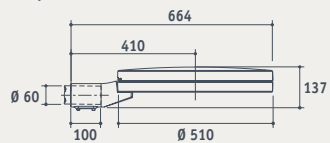
Disq 2140



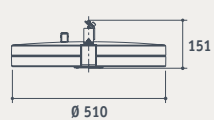
Disq 2141



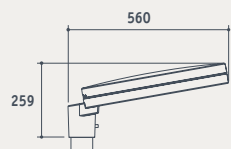
Disq 2142



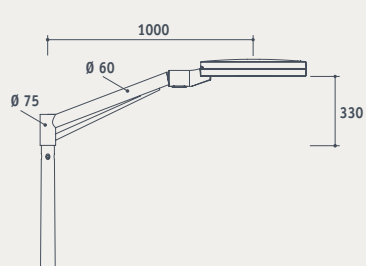
Disq 2143



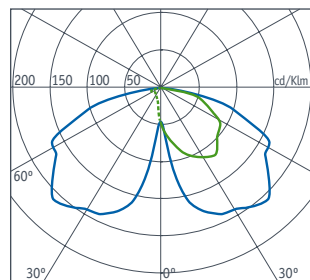
Disq 2144



Almere Single bracket



Disq 2140



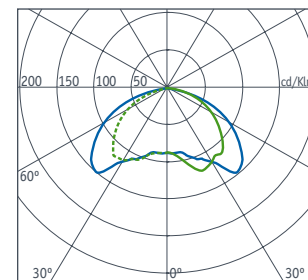
**Reflector**  
SNN

**Lamp**  
FSD-24

**Performance**  
ULOR: 0%  
DLOR: 63%



Disq 2140



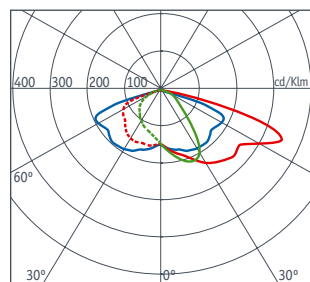
**Reflector**  
SRN

**Lamp**  
FSCH-22

**Performance**  
ULOR: 0%  
DLOR: 53%



Disq 2142



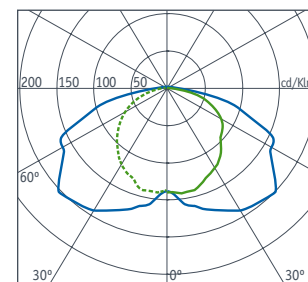
**Reflector**  
CNN

**Lamp**  
MT-60

**Performance**  
ULOR: 0%  
DLOR: 74%



Disq 2142




























**Reflector**  
SNN

**Lamp**  
FSD-24

**Performance**  
ULOR: 0%  
DLOR: 66%



| MODEL     | TYPE       | SHAPE   | LAMP HOLDER | REFLECTOR |     |     |     |         | BOWL       | W.a. (m <sup>2</sup> ) | Kg  |
|-----------|------------|---|-------------|-----------|-----|-----|-----|---------|------------|------------------------|-----|
|           |            |   |             | SNN       | SRN | PNN | CNN | DIRECTA |            |                        |     |
| Disq 2140 | FSD-18/36  |    | 2G11        | •         |     |     |     |         | PC Clear   | 0.065                  | 7.5 |
|           | FSCH-22/60 |    | 2GX13       |           | •   |     |     |         | PC Refraq  |                        |     |
|           | MT-35/150  |    | G12         |           |     | •   | •   |         | Flat glass |                        |     |
|           | MT-45/140  |    | PGZ12       |           |     | •   | •   |         | Flat glass |                        |     |
|           | LED        |    |             |           |     |     |     | •       |            |                        |     |
| Disq 2141 | FSD-18/36  |    | 2G11        | •         |     |     |     |         | PC Clear   | 0.055                  | 7   |
|           | FSCH-22/60 |    | 2GX13       |           | •   |     |     |         | PC Refraq  |                        |     |
|           | MT-35/150  |    | G12         |           |     | •   | •   |         | Flat glass |                        |     |
|           | MT-45/140  |    | PGZ12       |           |     | •   | •   |         | Flat glass |                        |     |
|           | LED        |    |             |           |     |     |     | •       |            |                        |     |
| Disq 2142 | FSD-18/36  |    | 2G11        | •         |     |     |     |         | PC Clear   | 0.0535                 | 7   |
|           | FSCH-22/60 |    | 2GX13       |           | •   |     |     |         | PC Refraq  |                        |     |
|           | MT-35/150  |    | G12         |           |     | •   | •   |         | Flat glass |                        |     |
|           | MT-45/140  |    | PGZ12       |           |     | •   | •   |         | Flat glass |                        |     |
|           | LED        |    |             |           |     |     |     | •       |            |                        |     |
| Disq 2143 | FSD-18/36  |    | 2G11        | •         |     |     |     |         | PC Clear   | 0.0533                 | 7   |
|           | FSCH-22/60 |    | 2GX13       |           | •   |     |     |         | PC Refraq  |                        |     |
|           | MT-35/150  |    | G12         |           |     | •   | •   |         | Flat glass |                        |     |
|           | MT-45/140  |    | PGZ12       |           |     | •   | •   |         | Flat glass |                        |     |
|           | LED        |    |             |           |     |     |     | •       |            |                        |     |
| Disq 2144 | FSD-18/36  |   | 2G11        | •         |     |     |     |         | PC Clear   | 0.055                  | 7   |
|           | FSCH-22/60 |  | 2GX13       |           | •   |     |     |         | PC Refraq  |                        |     |
|           | MT-35/150  |  | G12         |           |     | •   | •   |         | Flat glass |                        |     |
|           | MT-45/140  |  | PGZ12       |           |     | •   | •   |         | Flat glass |                        |     |
|           | LED        |  |             |           |     |     |     | •       |            |                        |     |

FSD (Compact fluorescent)  
 FSCH (Fluorescent circular)  
 MT (Ceramic metal halide)

PC (Polycarbonate Bowl)  
 W.a. (Windage area)  
 Kg (Weight)

For more information about lamps, consult pages 386-389.

### OPTIONS

Including lamp and cable  
 Class II versions  
 Wired for cell (WFC) or mini Photocell  
 Other RAL colours on request  
 DIM versions

### ACCESSORIES

Louvre frame with maximum 8 louvres  
 Special adapter for Ø 60mm post top